IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Application No.:

09/841,000

Confirmation No.:

4713

Filing Date:

April 24, 2001

Inventors:

de Rouffignac et al.

Title:

IN SITU THERMAL PROCESSING OF A

HYDROCARBON

CONTAINING FORMATION

TO INCREASE A

PERMEABILITY OF THE

FORMATION

Examiner:

G. A. Suchfield

Art Unit:

3672

Atty. Dkt. No.:

5659-02400/EBM

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8

DATE OF DEPOSIT:

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Commissioner for Patent

REQUEST FOR SIGNED ELECTRONIC INFORMATION DISCLOSURE STATEMENTS

Mail Stop: Issue Fee Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Applicant notes that the Examiner has not acknowledged receipt of all Information Disclosure Statements filed for the above-captioned application. Applicant has attached the following unacknowledged electronic Information Disclosure Statements listing:

- U.S. Patent Documents citation numbers 1-8 and received by the PTO on May 13, 2004 as indicated on the enclosed copy of the e-IDS acknowledgment receipt EFS ID: 60900 obtained from the Patent Application Information Retrieval (PAIR) database;
- U.S. Patent Documents citation numbers 1-45 and U.S. Published Applications citation numbers 1-5 and received by the PTO on August 24, 2004 as indicated on the enclosed copy of the e-IDS acknowledgment receipt EFS ID: 67250 obtained from PAIR;

Inventors: de Rouffignac et al. Appl. Ser. No.: 09/841,000

Atty. Dkt. No.: 5659-02400

U.S. Patent Documents citation numbers 1-11 and U.S. Published Applications citation number 1 and received by the PTO on August 24, 2004 as indicated on the enclosed copy of the e-IDS acknowledgment receipt EFS ID: 67251 obtained from PAIR;

U.S. Patent Documents citation numbers 1-25 and U.S. Published Applications citation numbers 1 and 2 and received by the PTO on September 28, 2004 as indicated on the enclosed copy of the e-IDS acknowledgment receipt EFS ID: 69424 obtained from PAIR; and

U.S. Patent Documents citation numbers 1-4 and received by the PTO on November 12, 2004 as indicated on the enclosed copy of the e-IDS acknowledgment receipt EFS ID: 72385 obtained from PAIR.

Applicant respectfully requests signed, initialed copies of the electronic Information Disclosure Statements previously submitted for the above-captioned application.

Respectfully submitted,

Eric B. Meyertons

Reg. No. 34,876

Attorney for Applicant

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Date: May 1, 205

UNITED STATES PATENT AND TRADEMARK OFFICE ACKNOWLEDGEMENT RECEIPT

Electronic Version 1.1 Stylesheet Version v1.1.1

Title of Invention

IN SITU THERMAL PROCESSING OF A HYDROCARBON CONTAINING FORMATION TO INCREASE A PERMEABILITY OF THE FORMATION

Submission Type:

Information Disclosure Statement

Application Number:

09/841000

09/841000

EFS ID:

60900



| Confirmation Code | Message |
|----------------------|---|
| ISVR1 | Submission was successfully submitted - Even if Informational or Warning Messages appear below, please do not resubmit this application |
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| ISYS5 | Filename= N/A BusinessRule= Validation System/Function Call Information. #Supporting Msg:Server unable to validate the Confirmaton/Application numbers at this time. They will be checked by PTO personnel later. |

First Named Applicant:

Eric de Rouffignac

Attorney Docket Number: 5659-02400

Timestamp:

2004-05-13 13:33:42 EDT

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| | Total files size | 109219 |

Message Digest:

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Digital Certificate Holder

Name:

cn=Eric B. Meyertons,ou=Registered Attorneys, ou=Patent and Trademark

Electronic Version v18
Stylesheet Version v18.0

Title of Invention

IN SITU THERMAL PROCESSING OF A HYDROCARBON CONTAINING FORMATION TO INCREASE A PERMEABILITY OF THE FORMATION

09/841000

Application Number:

09/841000

Confirmation Number:

4713

First Named Applicant:

Eric de Rouffignac

Attorney Docket Number: 5659-02400

Art Unit:

3672

Examiner:

George A Suchfield

Search string:

(3994340 or 3994341 or 4460044 or 4696345 or 2584605 or 2969226

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or 3982591 or 3982592).pn.

<u>Certification:</u> This Information Disclosure Statement was submitted under the following conditions, which satisfies the requirement under 37 CFR 1.97(e). The filer certified:

That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement.

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

| init | Cite.No. | Patent No. | Date | Patentee | Kind | Class | Subclass |
|------|----------|------------|------------|-----------------|------|-------|----------|
| | 1 | 3994340 | 1976-11-30 | Anderson et al. | | | |
| | 2 | 3994341 | 1976-11-30 | Anderson et al. | | | |
| | 3 | 4460044 | 1984-07-17 | Porter | | | |
| | 4 | 4696345 | 1987-09-29 | Hsueh | | | |
| | 5 | 2584605 | 1952-02-05 | Merriam et al. | | | |
| | 6 | 2969226 | 1961-01-24 | Huntington | | | |
| | 7 | 3982591 | 1976-09-28 | Hamrick et al. | | | |
| | 8 | 3982592 | 1976-09-28 | Hamrick et al. | | | |

Signature Examiner Name Date

Electronic Version 1.1

Stylesheet Version v1.1.1

Title of Invention

IN SITU THERMAL PROCESSING OF A HYDROCARBON CONTAINING FORMATION TO INCREASE A PERMEABILITY OF THE FORMATION

Submision Type:

Information Disclosure

Statement

Application Number:

09/841000

67250

EFS ID:

Server Response:



| Confirmation Code | Message |
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| ISVR1 | Submission was successfully submitted - Even if Informational or Warning Messages appear below, please do not resubmit this application |
| ICON1 | 4713 |
| USPTOEFSNot | For assistance with e-filing a patent application, contact the Patent Electronic Business Center: Toll-Free Number:1(866) 217-9197 Website: http://www.uspto.gov/ebc/ |

First Named Applicant:

Eric de Rouffignac

Attorney Docket Number:

5659-02400

Timestamp:

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| package-data | U20-U82-pkda.xml | 1790 | 2004-08-24 |
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Digital Certificate Holder

cn=Eric B.

Name:

Meyertons,ou=Registered Attorneys,ou=Patent and

Trademark

Office,ou=Department of Commerce,o=U.S. Government,c=US

Electronic Version v18

Stylesheet Version v18.0

Title of Invention IN SITU THERMAL PROCESSING OF A HYDROCARBON CONTAINING FORMATION TO INCREASE A PERMEABILITY OF THE FORMATION

Application Number:

09/841000

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4713

First Named Applicant:

Eric de Rouffignac

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Art Unit:

3672

Examiner:

George A Suchfield

Search string:

(3004596 or 3342258 or 3455383 or 3501201 or 3502372 or 3759574 or 4160479 or 4375302 or 4483398 or 6698515 or 6702016 or 6708758 or 6712135 or 6712136 or 6712137 or 6715546 or 6715547 or 6715549 or 6715548 or 6719047 or 6722431 or 6722430 or 6722429 or 6725920 or 6725921 or 6725928 or 6729397 or 6729396 or 6729401 or 6729395 or 6732794 or 6732796 or 6736215 or 6739394 or 6739393 or 6742593 or 6742587 or 6742589 or 6742588 or 6745837 or 6745831 or 6749021

or 6752210 or 6758268 or 6761216 or 20040069486 or 20040015023 or

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20030213594 or 20040040715 or 20040020642).pn

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

| init | Cite.No. | Patent No. | Date | Patentee | Kind | Class | Subclass |
|------|----------|------------|------------|----------------------|------|-------|----------|
| | 1 | 3004596 | 1961-10-17 | Parker et al. | | | |
| | 2 | 3342258 | 1967-09-19 | Prats | | | |
| | 3 | 3455383 | 1969-07-15 | Prats et al. | | | |
| | 4 | 3501201 | 1970-03-17 | Closmann et al. | | | |
| | 5 | 3502372 | 1970-03-24 | Prats | | | |
| | 6 | 3759574 | 1973-09-18 | Beard | | | |
| | 7 | 4160479 | 1979-07-10 | Richardson et al. | | | |
| | 8 | 4375302 | 1983-03-01 | Kalmar | | | |
| | 9 | 4483398 | 1984-11-20 | Peters et al. | | | |
| | 10 | 6698515 | 2004-03-02 | Karanikas et al. | | | |
| | 11 | 6702016 | 2004-03-09 | de Rouffignac et al. | | | |
| | 12 | 6708758 | 2004-03-23 | de Rouffignac et al. | | | |
| | 13 | 6712135 | 2004-03-30 | Wellington et al. | | | |
| | 14 | 6712136 | 2004-03-30 | de Rouffignac et al. | | | |

| | 15 | 6712137 | 2004-03-30 | Vinegar et al. | | |
|----------|------|---------|------------|--------------------|---|--------------|
| | 16 | 6715546 | 2004-04-06 | Vinegar et al. | | |
| | 17 | 6715547 | 2004-04-06 | Vinegar et al. | | |
| | 18 | 6715549 | 2004-04-06 | Wellington et al. | | |
| | 19 | 6715548 | 2004-04-06 | Wellington et al. | | |
| | 20 | 6719047 | 2004-04-13 | Fowler et al. | | |
| | 21 | 6722431 | 2004-04-20 | Karanikas et al. | | |
| | 22 | 6722430 | 2004-04-20 | Vinegar et al. | | |
| | 23 | 6722429 | 2004-04-20 | de Rouffignac et | | |
| | | | | al. | | |
| | 24 | 6725920 | 2004-04-27 | Zhang et al. | — | |
| | 25 | 6725921 | 2004-04-27 | de Rouffignac et | | |
| L | | | | al. | | |
| <u> </u> | 26 | 6725928 | 2004-04-27 | Vinegar et al. | | |
| | 27 | 6729397 | 2004-05-04 | Zhang et al. | | |
| | 28 | 6729396 | 2004-05-04 | Vinegar et al. | | <u> </u> |
| | 29 | 6729401 | 2004-05-04 | Vinegar et al. | | |
| | 30 | 6729395 | 2004-05-04 | Shahin, Jr. et al. | | |
| | 31 | 6732794 | 2004-05-11 | Wellington et al. | | |
| | 32 | 6732796 | 2004-05-11 | Vinegar et al. | | ŀ |
| | 33 | 6736215 | 2004-05-18 | Maher et al. | | |
| | 34 | 6739394 | 2004-05-25 | Vinegar et al. | | |
| | 35 | 6739393 | 2004-05-25 | Vinegar et al. | | |
| | 36 | 6742593 | 2004-06-01 | Vinegar et al. | - | |
| | 37 | 6742587 | 2004-06-01 | Vinegar et al. | · | |
| | . 38 | 6742589 | 2004-06-01 | Berchenko et al. | | |
| | 39 | 6742588 | 2004-06-01 | Wellington et al. | | |
| | 40 | 6745837 | 2004-06-08 | Wellington et al. | | |
| | 41 | 6745831 | 2004-06-08 | de Rouffignac et | | |
| | | | | al. | | |
| | 42 | 6749021 | 2004-06-15 | Vinegar et al. | | |
| | 43 | 6752210 | 2004-06-22 | de Rouffignac et | | |
| | 1 | 075000 | | al. | | |
| <u> </u> | 44 | 6758268 | 2004-07-06 | Vinegar et al. | | |
| L | 45 | 6761216 | 2004-07-13 | Vinegar et al. | | |

US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

| init | Cite.No. | L | Date | Applicant | Kind | Class | Subclass |
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| | 1 | 20040069486 | 2004-04-15 | Vinegar et al. | | | |
| | 2 | 20040015023 | 2004-01-22 | Wellington et al. | | | |
| | 3 | 20030213594 | 2003-11-20 | Wellington et al. | | | |
| | 4 | 20040040715 | 2004-03-04 | Wellington et al. | | | |
| | 5 | 20040020642 | 2004-02-05 | Vinegar et al. | · | | |

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Electronic Version 1.1

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Title of Invention

IN SITU THERMAL PROCESSING OF A HYDROCARBON CONTAINING FORMATION TO INCREASE A PERMEABILITY OF THE FORMATION

Submision Type:

Information Disclosure

Statement

Application Number:

09/841000

EFS ID:

67251

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| ICON1 | 4713 |
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First Named Applicant:

Eric de Rouffignac

Attorney Docket Number:

5659-02400

Timestamp:

2004-08-24 10:50:54 EDT

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| package-data | U20-U82-pkda.xml | 1790 | 2004-08-24 |
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Digital Certificate Holder

Name:

cn=Eric B. Meyertons,ou=Registered

Attorneys,ou=Patent and

Trademark

Office,ou=Department of Commerce,o=U.S. Government,c=US

Electronic Version v18

Stylesheet Version v18.0

Title of Invention

IN SITU THERMAL PROCESSING OF A HYDROCARBON CONTAINING FORMATION TO INCREASE A PERMEABILITY OF THE FORMATION

Application Number:

09/841000

Confirmation Number:

4713

First Named Applicant:

Eric de Rouffignac

Attorney Docket Number:

5659-02400

Art Unit:

3672

Examiner:

George A Suchfield

Search string:

(6763886 or 6769485 or 6769483 or 6581684 or 6588504 or 6588503 or 6591906

or 6591907 or 6607033 or 6609570 or 6688387 or 20040108111) pn



US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

| init | Cite.No. | Patent No. | Date | Patentee | Kind | Class | Subclass |
|------|----------|------------|------------|----------------------|------|-------|------------------|
| | 1 | 6763886 | 2004-07-20 | Schoeling et al. | | | |
| | 2 | 6769485 | 2004-08-03 | Vinegar et al. | | | |
| | 3 | 6769483 | 2004-08-03 | de Rouffignac et al. | | | |
| | 4 | 6581684 | 2003-06-24 | Wellington et al. | | | |
| | 5 | 6588504 | 2003-07-08 | Wellington et al. | | | , and the second |
| | 6 | 6588503 | 2003-07-08 | Karanikas et al. | | | |
| | 7 | 6591906 | 2003-07-15 | Wellington et al. | | | |
| | 8 | 6591907 | 2003-07-15 | Zhang et al. | | | |
| | 9 | 6607033 | 2003-08-19 | Wellington et al. | | | |
| | 10 | 6609570 | 2003-08-26 | Wellington et al. | - | | |
| | 11 | 6688387 | 2004-02-10 | Wellington et al. | | | |

US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

| init | Cite.No. | Pub. No. | Date | Applicant | Kind | Class | Subclass |
|------|----------|-------------|------------|----------------|------|-------|----------|
| | 1 | 20040108111 | 2004-06-10 | Vinegar et al. | | | |

| Examiner I | Vame | | Date | |
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Electronic Version 1.1

Stylesheet Version v1.1.1

Title of Invention

IN SITU THERMAL PROCESSING OF A HYDROCARBON CONTAINING FORMATION TO INCREASE A PERMEABILITY OF THE FORMATION

Submision Type:

Information Disclosure

Statement

Application Number:

09/841000

69424

EFS ID:

Server Response:



| Confirmation Code | Message |
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| ICON1 | 4713 |
| USPTOEFSNot | Eer assistance with e-filing a patent application, contact the Patent Electronic Business Center: Toll-Free Number:1(866) 217-9197 Website: http://www.uspto.gov/ebc/ |

First Named Applicant:

Eric de Rouffignac

Attorney Docket Number:

5659-02400

Timestamp:

2004-09-28 16:43:05 EDT

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Message Digest:

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Digital Certificate Holder

cn=Eric B.

Name:

Meyertons,ou=Registered Attorneys,ou=Patent and

Trademark

Office,ou=Department of Commerce,o=U.S. Government,c=US

Electronic Version v18

Stylesheet Version v18.0

Title of Invention IN SITU THERMAL PROCESSING OF A HYDROCARBON CONTAINING FORMATION TO INCREASE A PERMEABILITY OF THE FORMATION

Application Number:

09/841000

Confirmation Number: First Named Applicant:

Eric de Rouffignac

Attorney Docket Number:

5659-02400

Art Unit:

3672

4713

Examiner:

George A. Suchfield

Search string:

(5539853 or 3691291 or 3032102 or 3079085 or 3454365 or 4260018 or 4683947 or 5055180 or 5626191 or 6353706 or 6467543 or 6499536 or 4734115 or 3170842 or 3618663 or 4018280 or 4698149 or 3948755 or 4605489 or 4623444 or 4885080 or 5059303 or 6110358 or 6789625 or 6782947 or 20020004533 or 20020112987

).pn

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

| init | Cite.No. | Patent No. | Date | Patentee | Kind | Class | Subclass |
|------|----------|------------|------------|-------------------|------|----------|----------|
| | 1 | 5539853 | 1996-07-23 | Jamaluddin et al. | | <u> </u> | |
| | 2 | 3691291 | 1972-09-12 | Taj | | | |
| | 3 | 3032102 | 1962-05-01 | Parker | | | |
| | 4 | 3079085 | 2004-09-28 | Clark, Jr. et al. | | | |
| | 5 | 3454365 | 1969-07-08 | Lumpkin et al. | | | |
| | 6 | 4260018 | 1981-04-07 | Shum et al. | | | |
| | 7 | 4683947 | 1987-08-04 | Fernbacher et al. | | | |
| | 8 | 5055180 | 1991-10-08 | Klaila | | | |
| | 9 | 5626191 | 1997-05-06 | Greaves et al. | | | |
| | 10 | 6353706 | 2002-03-05 | Bridges | | | |
| | 11 | 6467543 | 2002-10-22 | Talwani et al. | | | |
| | 12 | 6499536 | 2002-12-31 | Ellingsen | | | |
| | 13 | 4734115 | 1998-03-29 | Howard et al. | | | |
| | 14 | 3170842 | 1965-02-23 | Kehler | | | |
| | 15 | 3618663 | 1971-11-09 | Needham | | | |
| | 16 | 4018280 | 1977-04-19 | Daviduk et al. | | | |
| | 17 | 4698149 | 1987-10-06 | Mitchell | | | |
| | 18 | 3948755 | 1976-04-06 | McCollum et al. | | | |
| | 19 | 4605489 | 1986-08-12 | Madgavkar | | | |

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| | • | 20 | 4623444 | 1986-11-18 | Che et al. | |
|---|---|----|---------|------------|---------------------|--|
| • | | 21 | 4885080 | 1989-12-05 | Brown et al. | |
| | | 22 | 5059303 | 1991-10-22 | Taylor et al. | |
| | | 23 | 6110358 | 2000-08-29 | Aldous et al. | |
| | | 24 | 6789625 | 2004-09-14 | de Rouffinac et al. | |
| | | 25 | 6782947 | 2004-08-31 | de Rouffinac et al. | |

US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

| Ì | init | Cite.No. | Pub. No. | Date | Applicant | Kind | Class | Subclass |
|---|------|----------|-------------|------------|----------------|------|-------|----------|
| | | 1 | 20020004533 | 2002-01-10 | Wallace et al. | | | |
| 1 | | 2 | 20020112987 | 2002-08-22 | Hou et al. | | | |

Signature

| Examiner Name | Date | | |
|---------------|------|--|--|
| | | | |

Electronic Version 1.1

Stylesheet Version v1.1.1

Title of Invention

IN SITU THERMAL PROCESSING OF A HYDROCARBON CONTAINING FORMATION TO INCREASE A PERMEABILITY OF THE FORMATION

Submision Type:

Information Disclosure

Statement

Application Number:

09/841000

EFS ID:

72385

Server Response:

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| ICON1 | 4713 |
| | Eer assistance with e-filing a patent application, contact the Patent Electronic Business Center: Toll-Free Number:1(866) 217-9197 Website: http://www.uspto.gov/ebc/ |

First Named Applicant:

Eric de Rouffignac

Attorney Docket Number:

5659-02400

Timestamp:

2004-11-12 10:14:27 EDT

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Title of Invention IN SITU THERMAL PROCESSING OF A HYDROCARBON CONTAINING FORMATION TO INCREASE A PERMEABILITY OF THE FORMATION

Application Number:

09/841000

Confirmation Number:

4713

First Named Applicant:

Eric de Rouffignac

Attorney Docket Number:

5659-02400

Art Unit:

3672

Examiner:

George A. Suchfield

Search string:

(3017168 or 3434541 or 4598772 or 5456315).pn

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

| init | Cite.No. | Patent No. | Date | Patentee | Kind | Class | Subclass |
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Signature

| Examiner Name | Date | | |
|---------------|------|--|--|
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